

REMARKS

Claims 1-25 and 27-35 are pending in this application. By this Amendment, the specification and claims 12, 14-16, 18, 25, 30 and 32 are amended. Various amendments are made to the claims for clarity and are unrelated to issues of patentability.

Entry of the amendments are proper under 37 C.F.R. §1.116 because the amendments: (1) place the application in condition for allowance for the reasons set forth below; (2) do not raise any new issues requiring further search and/or consideration; and/or (3) place the application in better form for appeal should an appeal be necessary. More specifically, the amendments merely relate to previously claimed subject matter as will be discussed below. Thus, no new issues are raised. Entry is therefore proper under 37 C.F.R. § 1.116.

Previous dependent claim 16 recited that WLAN transmitting processor and the WLL receiving processor share a phase locked loop. By this Amendment, each of independent claims 12 and 15 are amended to include similar types of features. Additionally, various claims, such as allowable independent claim 1 (and similarly dependent claim 35) relate to an antenna applying received radio signals to a WLL transceiver section or to a WLAN transceiver section. By this Amendment, independent claim 18 is amended to recite similar subject matter. Furthermore, independent claim 32 is amended to recite a single integrated apparatus. Applicant respectfully submits that this feature does not raise any new issues as the other claims relate to an integrated apparatus and applicant's previous claimed single apparatus corresponds to the presently claimed

single integrated apparatus. Thus, no further search and/or consideration is necessary. Entry is proper under 37 C.F.R. § 1.116.

Applicant gratefully acknowledges the Office Action's indication that claims 1-11, 33 and 34 are allowed and that claim 13 contains allowable subject matter.

The Office Action rejects claims 12, 15, 17, 18, 20-25, 27-32 and 35 under 35 U.S.C. § 103(a) over U.S. Patent 6,640,100 to Kojima et al. (hereafter "Kojima") in view of U.S. Patent 5,410,738 to Diepstraten et al. (hereafter "Diepstraten"). The Office Action also rejects claims 14, 16 and 19 over Kojima in view of Diepstraten and in further view of U.S. Patent 6,304,560 to Archambaud et al. (hereafter "Archambaud"). The rejections are respectfully traversed.

Independent claim 12 recites transmitting the data which has been subjected to a predetermined procedure in the WLL receiving processor through a digital baseband processor and a medium access controller (MAC) to a WLAN transmitting processor. Independent claim 12 further recites the WLL receiving processor and the WLAN transmitting processor share a phase locked loop. Independent claim 15 similarly recites transmitting the data which has been subjected to a predetermined procedure in the WLAN receiving processor through a medium access controller (MAC) and a digital baseband processor to a WLL transmitting processor, wherein the WLL transmitting processor and the WLAN receiving processor share a phase locked loop.

Kojimo and the other applied references do not teach or suggest these features of independent claims 12 and 15. More specifically, the Office Action appears to reply on

Kojimo's Fig. 2 as showing communications between a WLL base station 7, a repeater subscriber's terminal 8 and communications between a PHS-terminal base station 9 and a PHS-terminal 12. As previously argued, Kojimo's col. 5, lines 29-32 describes that the repeater subscriber's terminal 8 is wirelessly connected to the PHS-terminal base station 9. Thus, Kojimo does not relate to any type of integrated transceiver apparatus that includes both a WLL transceiver section, a WLAN transceiver and an antenna unit. Because the repeater subscriber's terminal 8 is not physically connected to the PHS-terminal base station 9, these separate entities do not share a phase locked loop, since a phase locked loop would require a physical connection between the two entities.

In rejecting dependent claims 14, 16 and 17, the Office Action agrees that Kojimo and Diepstraten do not specifically disclose the limitation "the WLL transceiver section and the WLAN transceiver section share one phase locked loop (PLL) using a plurality of distributors". The Office Action then relies on Archambaud as disclosing a WLL base station having a digital phase lock loop. However, Kojimo's repeater subscriber's terminal 8 and PHS-terminal base station 9 are not physically coupled so as to share a phase locked loop. In other words, there is no suggestion for these entities being physically connected. Rather, in accordance with Kojimo's disclosure, these entities are wirelessly coupled. Thus, there is no suggestion as to how separate entities may possibly share a phase locked loop. The alleged combination would not work and therefore is improper. Furthermore, none of the applied references teach or suggest that both a WLL receiving processor and a WLN transmitting processor share a phase locked loop. Thus,

the Office Action fails to show any reference having these features. Therefore, a *prima facie* case of obviousness has not been provided at least with respect to claims 14, 16 and 19. In view of these features within independent claims 12 and 15, applicant respectfully submits that independent claims 12 and 15 define patentable subject matter at least for this reason.

Independent 18 recites an antenna unit having a first antenna coupled to the WLL transceiver and to the WLAN transceiver. Independent claim 18 also recites the first antenna to receive a radio signal from the wireless base station and the first antenna to receive a radio signal from the one or more devices, and the antenna unit applying the received radio signal to the WLL transceiver or the WLAN transceiver. Similar features are recited in allowable claim 1. Applicant respectfully submits that the applied references do not teach or suggest these features of independent claim 18. That is, Kojimo clearly relies on one antenna for the repeater subscriber's terminal 8 to communicate with the WLL base station 7 and another separate antenna for the PHS-terminal base station 9 to communicate with the PHS-terminal device 12. Thus, Kojimo has no suggestion for the claimed first antenna to receive a radio signal from the wireless base station and to receive a radio signal from the one or more devices. The other applied references do not teach or suggest these missing features of independent claim 18. Thus, independent claim 18 defines patentable subject matter for at least these reasons.

Independent claim 32 recites a single integrated apparatus for transferring data from the WLL base station to or from the plurality of devices connected to the WLAN. Independent claim 32 also recites the single integrated apparatus including means for translating the data

between a WLAN signaling protocol and a WLL signaling protocol. As discussed above, Kojimo's repeater subscriber's terminal 8 and PHS-terminal base station 9 are separate entities. Therefore, applicant respectfully submits that Kojimo (and the other applied references) do not teach or suggest the claimed single integrated apparatus in which the single integrated apparatus includes means for translating the data between a WLAN signaling protocol and a WLL signaling protocol. Accordingly, independent claim 32 defines patentable subject matter at least for this reason.

Each of the dependent claims depends from one of the independent claims and therefore defines patentable subject matter at least for this reason. In addition, the dependent claims recite features that further and independently distinguish over the applied references. For example, dependent claim 19 recites the WLL transceiver and the WLAN transceiver share a single phase locked loop and a plurality of distributors. For at least the reasons set forth above with respect to claims 12 and 15, the applied references do not teach or suggest a shared single phase locked loop. Thus, dependent claim 19 defines patentable subject matter at least for this reason.

While applicant appreciates the Office Action's indication of allowable subject matter, applicant does not understand the information provided on page 11 of the Office Action (referring to the combined claim elements in claims 1-11, 33 and 34). For example, the subject matter listed as corresponding to independent claim 1 is not the exact language of claim 1. Additionally, the language set forth on page 12 does not exactly correspond with allowable dependent claim 13.

Serial No. 09/916,318
Reply to Office Action of June 30, 2005

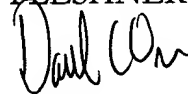
Docket No. P-0217

CONCLUSION

In view of the foregoing, it is respectfully submitted that the application is in condition for allowance. Favorable consideration and prompt allowance of claims 1-25 and 27-35 are earnestly solicited. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney, **David C. Oren**, at the telephone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this, concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,
FLESHNER & KIM, LLP



David C. Oren
Registration No. 38,694

P.O. Box 221200
Chantilly, Virginia 20153-1200
703 766-3701 DYK/DCO:knv/kah

Date: SEPTEMBER 20, 2005

Please direct all correspondence to Customer Number 34610